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V. *The Difference in Time of the Meridians of diverse Places computed from Observations of the Eclipses of Jupiter's Satellites, by the Reverend Mr. Derham Canon of Windsor, and F. R. S.*

SIR *Thomas Derham*, at *Florence*, having lately favoured me with his Transcript of Monsignor *Bianchini's* Observations of the Eclipses of *Jupiter's Satellites*, from the Year 1721, I have laid them down so as to be seen at an easy View, for the Service of the R. S. Monsieur *Bianchini* saith, they were made with a Telescope of *Campani's* grinding of 23 $\frac{1}{2}$ Roman Palms: That Father *Jo. Bapt. Carboni* at *Lisbon* made use of such another of the same Make, Length, and Goodness; and therefore thinks the Times assigned by them, to be exact; that he drew *Meridian-Lines* at *Affisi* in *Ombria* & *Urbino*; at *St. Quirico* in *Tuscany* and *Florence*: And that Monsignor *Eustach. Manfredi* at the Observatory of *Bologna*, and he observed the Immersion of the first *Satellite* on 25 *August* within two Seconds of one another; *Manfredi* with a Glass of 8 *Bononia* Feet, and he with one of 11; both made by *Campani*. With his own, *Bianchini* hath inserted some Observations, made at the same time by Father *Carboni* at *Lisbon*, and Father *Grammatici* at *Ingolstadt*; Monsieur *Maraldi* at *Paris*, and Monsignor *Eustachius Manfredi* at *Bologna*; as also an Immersion observed by Mr. *Molyneux* near *London* (I suppose at *Kew*) with his reflecting Telescope, and two at *Pekin* in *China* by Father *Ignatius Kogler* a *Jesuit*: But I suppose there is a Mistake in the Observation of *November 30, 1724*, that it was an Emer-sion, not an Immersion; the Immersions of the first *Satellite* being not to be seen then.

Sir *Thomas* tells me that Signior *Bianchini* promifeth his Observations of the circumjovial Eclipses from the Year 1700, and that he will fend the Society in November his new Globe of *Venus*.

As to the *Bologna* Observations, they were put into my Hands by Dr. *Rutty*, Secr. to the R. S; and are said to be made with a Glas of *Campani's*, of 11 *Bologna* Feet, And to save the Peruser the Trouble, I have computed the Difference in Time between the Places in *Bianchini's* and *Manfredi's* Catalogues, and some Observations that I had of mine own.

<i>Rome and Lisbon.</i>	<i>Rome and Kew.</i>	<i>Ingolstad and Lisbon.</i>	<i>St. Quirico and Upminster.</i>
H. ' "	H. ' "	H. ' "	H. ' "
I 24 46	o 45 47	I 22 53	o 47 50
I 25 34	<i>Rome and Wansted.</i>	I 23 21	<i>Florence and Lisbon.</i>
I 26 34	o 49 10	<i>Ingolstad and St. Quirico</i>	I 19 43
I 29 o	<i>Rome and Upminster.</i>	o I 20	<i>Florence and Bologne.</i>
I 26 44	o 47 28	o I 40	o o 31
I 26 54	<i>Rome and Southwick in Northampton-shire.</i>	<i>Ingolstad and Bologne.</i>	<i>Florence and Upminster.</i>
I 28 11	o 47 58	o I 53	o 42 I
<i>Rome and Paris.</i>	<i>Urbino and Lisbon.</i>	<i>Ingolstad and Paris.</i>	<i>Upminster and Bologne.</i>
o 39 48	I 28 57	o 36 23	o 43 43
o 40 50	<i>Paris and Lisbon.</i>	o 36 00	<i>Upminster and Lisbon.</i>
o 36 16	o 45 46	<i>Ingolstad and Upminster.</i>	o 37 42
o 38 56	o 45 44	o 46 10	<i>Bologne and Lisbon.</i>
o 40 17	<i>Paris and Bologne.</i>	I 22 30	I 21 28
<i>Rome and Ingolstad.</i>	o 34 30	<i>St. Quirico and Lisbon.</i>	<i>Bologne and Albano.</i>
o 2 51	o 34 o	I 22 30	o 3 43
o 4 I	o 38 32	o 37 40	
<i>Rome and Bologne.</i>			
o 3 45			
o 2 16			
o 4 45			
o 4 14			

Observations of the Eclipses of *Jupiter's Satellites* made by Monsignor *Bianchini* at *Rome*, and other Places: With Accounts of such as he received from other Places.

Days of the Month.	Time of Observation.	Satel. Eclip.	Place where observed.	Days of the Month.	Time of Observation.	Satel. Eclip.	Place where observed.
Anno Domini 1721.				Anno Domini 1724.			
	H. ' "				H. ' "		
Apr. 3	15 4 32	Im. I	At Rome.	Jun. 8	{ 14 3 28 }		Carboni at
Jun. 21	8 46 0	Em. I	Rome.	15	{ 15 56 27 }		Lisbon. } I. I
Anno Domini 1722.				23	13 42 50		Rome. }
Jun. 9	13 20 0	E. I	Rome.	30	{ 15 34 29 }	I. I	Rome.
18	9 36 30	E. I	At Albano.	Aug. 10	{ 14 8 55 }	E. I	Lisbon.
Jul. 11	9 49 10	E. I	Rome.	17	10 45 20	E. I	Rome, but doubtful.
27	8 7 30	E. I	Rome.	26	12 40 45	E. I	Rome.
Aug. 19	8 26 20	E. I	Rome.	11	9 6 45	E. I	Rome.
Anno Domini 1723.				18	7 30 53	E. I	Rome.
Mar. 26	17 14 50	I. I	Rome.	25	9 28 16	E. I	Rome.
Apr. 11	15 31 45	I. I	Rome.	11	{ 11 25 55 }	E. I	Rome.
May 3	{ 15 48 51 }	I. I	Rome.	Oct. 11	{ 9 59 21 }	E. I	Lisbon.
	{ 15 43 05 }		At Ingolstadt by F. Grammatici.	14	9 53 8	E. I	Albano.
27	18 56 0	I. I	Rome.	14	{ 9 31 0 }	E. 3	From the Limb of 4 into 4 Shadow. Albano.
Jun. 5	12 16 30	I. I	Rome.	27	{ 11 7 0 }	I. 3	
12	14 11 39	I. I	Rome.	Nov. 12	8 16 0	E. I	Albano.
Jul. 23	{ 9 11 40 }	E. I	Rome.	19	5 33 10	E. I	Rome.
	{ 7 46 05 }		Lisbon, by Fa. Carboni.	30	8 25 5	E. I	Rome.
30	11 7 20	E. I	Rome.		6 14 0	I. I	At Pekin in China, by F. Kogler the Jesuit.
Aug. 8	7 32 0	E. I	At Oricoli in viâ flaminia.	Dec. 5	6 42 25	E. I	Rome.
15	9 35 0	E. I	At Affisi in Umbria.	Anno Domini 1725.			
Sep. 7	{ 9 50 45 }	E. I	Urbino.	Jun. 19	15 17 10	I. I	Rome.
23	{ 8 21 48 }	E. I	Lisbon.	July 5	13 32 20	I. I	Albano.
	8 17 54	E. I	At Muceria in Umbria.	7	14 55 50	I. I	Pekin.
Oct. 16	8 36 10	E. I	At Albano in the viâ appia.	21	{ 11 45 22 }	I. I	Rome.
					{ 10 89 35 }		Mr. Molineux near London.
				28	{ 13 39 10 }		Rome.
					{ 12 12 26 }	I. I	Lisbon.

Day of the Month.	Time of Observation.	Satel. Eclip.	Place where observed.	Day of the Month.	Time of Observation.	Satel. Eclip.	Place where observed.
				Anno Domini 1728.			
Nov. 15	{ 9 53 50 } 8 24 50	E. 1	Rome. Lisbon.	Jan. 15	13 13 46	E. 1	Rome.
— 24	6 15 15	E. 1	Rome.	Feb. 16	9 46 56	E. 1	Rome.
Dec. 17	6 20 30	E. 1	Rome.	Mar. 26	8 32 7	E. 1	Rome.
Anno Domini 1726.				Observations made at the Observatory of Bologna, by Monfignor Eustachius-Manfredi.			
				Anno Domini 1726.			
Jul. 17	{ 13 28 46 } 13 24 45 12 1 52	I. 1	Rome. Ingolstad. Lisbon.	Aug. 16	15 29 0	I. 1	Dubious.
Aug. 2	{ 11 40 0 } 11 41 20	I. 1	St. Quirco in Tuscany.	— 25	11 54 24	I. 1	Dubious.
— 9	{ 13 36 0 } 12 13 30	I. 1	Stena in Tuscany.	Nov. 27	9 35 11	E. 1	Dubious.
— 16	{ 15 28 29 } 14 8 46	I. 1	Lisbon.	Dec. 4	11 27 45	E. 1	Dubious.
— 16	{ 15 29 0 } 11 54 24	I. 1	Lisbon. Bolgne.	— 26	5 47 4	I. 3	Dubious.
Aug. 25	{ 11 54 26 } 11 56 18	I. 1	Bian. ? At Man. } Bol.	— 26	7 56 23	—	The third began to emerge.
— 25	{ 11 19 55 } 10 32 57	I. 1	Ingolstad. Paris.	— 31	29 59 26	E. 1	
Sep. 26	{ 8 41 0 } 8 39 20	I. 1	St. Quirico. Ingolstad.	— 31	6 18 54	E. 2	Just begun.
Oct. 1	{ 8 3 20 } 16 7 45	I. 1	Paris.	Anno Domini 1727			
Nov. 20	{ 7 46 30 } 6 20 19	E. 1	Rome. Lisbon.	Jan. 2	9 45 27	I. 3	Dubious.
— 27	{ 9 39 25 } 6 0 16	E. 1	Rome. Rome.	— 5	11 53 38	E. 1	
Dec. 6	{ 5 58 0 } 5 24 0	E. 1	Bologne. Paris.	— 7	7 51 54	E. 1	
Anno Domini 1727.				— 7	8 54 12	E. 2	
Mar. 8	6 42 50	E. 1	Rome.	Feb. 7	5 50 5	I. 3	Dubious.
— 8	15 18 27	I. 1	Rome.	— 7	7 52 54	E. 3	
Aug. 5	{ 15 0 8 } 14 21 12	I. 2	Rome. Paris.	— 8	8 37 59	E. 2	Air thick.
— 5	{ 12 0 0 } 11 55 15	I. 1	Rome. Bologne.	Aug. 21	13 34 39	I. 1	
Sep. 6	{ 11 19 43 } 10 41 30	I. 1	Paris.	Sep. 6	11 55 17	I. 1	
Oct. 15	6 5 54	I. 1	Albano.	— 17	10 48 59	I. 3	
— 20	12 33 23	I. 1	Albano.	— 17	12 40 30	E. 3	
— 22		I. 1	Albano.	Oct. 13	16 5 45	I. 1	
				— 22	12 29 42	I. 1	
				— 23	8 55 34	E. 3	
				— 30	11 1 9	I. 3	Dubious.
				Nov. 5	9 5 15	I. 2	Dubious.
				— 30	8 44 13	E. 2	
				Anno Domini 1728.			
				Jan. 17	8 41 8	E. 3	
				Feb. 16	9 43 11	E. 1	
				— 29	6 40 45	I. 3	Dubious.
				— 29	8 50 40	E. 3	